

Recovery Plan Action Status

Plan Name: Final Recovery Plan for the Prairie Species of Western Oregon and Southwestern Washington

Plan Status: Final

Plan Date: 29-Jun-10

Lead Agency: USFWS

Lead Office: Oregon Fish And Wildlife Office

(503)

(231-6179)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.1.1.1	Develop a standardized population monitoring protocol	Ongoing Current	FY 2009		Oregon Department of Agriculture, Universities or Colleges	Research: Population Assessment	Labor type not yet selected	
Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.1.1.2	Survey existing populations and surrounding suitable habitats to determine geographic extent of populations	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Research: Population Assessment	Contract, Internal Field Assistance, Species Expert	
Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.1.1.3	Attempt to locate additional populations of Fender's blue butterfly by surveying suitable habitats in areas not currently known to support populations	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Research: Population Assessment	Contract, Internal Field Assistance, Species Expert	5K every other year after
Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.1.2.1	Identify and evaluate sites and populations for inclusion in the development of potential functioning networks and independent populations	Ongoing Current	FY 2009		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Research: Population Assessment	Contract, Internal Technical Assistance, Species Expert	3K each year

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Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	2	1.1.2.2	Evaluate protected status of populations and sites identified for inclusion in all functioning networks and independent populations and ensure long term protection of those not yet secured	Not Started			U.S. Fish and Wildlife Service	Research: Population Assessment	Internal Technical Assistance, Species Expert	2K each year
Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	2	1.1.3	Develop and implement management plans for each functioning network and independent population	Ongoing Current	FY 2007		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation, Management: Planning	Internal Technical Assistance, Species Expert	20 k each year next 5 years, 20K every other year after
Kincaid's Lupine (<i>Lupinus sulphureus</i> (=oreganus) ssp. kincaidii (=var. kincaidii)), Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	2	1.1.4.1.1	Prescribed fire	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract, Internal Field Assistance	100K every 3rd year
Kincaid's Lupine (<i>Lupinus sulphureus</i> (=oreganus) ssp. kincaidii (=var. kincaidii)), Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	2	1.1.4.1.2	Mowing	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract, Internal Field Assistance	60K every other year after

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Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Fender's blue butterfly (Icaricia icarioides fenderi)	2	1.1.4.1.3	Manual removal of woody plants	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract, Internal Field Assistance	20K every other year after
Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Fender's blue butterfly (Icaricia icarioides fenderi)	3	1.1.4.1.4	Habitat management using other methods as appropriate, pending results of ongoing and planned research	Not Started			Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract, Internal Field Assistance	20K every other year after
Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.1.4.2.1	Restore and enhance populations of larval host plants	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract, Internal Field Assistance	10K every other year after
Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.1.4.2.2	Restore and enhance populations of nectar sources	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Research: Climate Change	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	20K every other year after

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Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	3	1.1.4.3	Evaluate and reduce grazing impacts from domestic stock, and assess the use of livestock grazing as a habitat management tool	Not Started			U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges, U.S. Geological Survey - Biological Resources Division	Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques	Contract, Graduate Student, Species Expert	
Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	3	1.1.4.4	Evaluate and reduce impacts of wild herbivores, especially deer and voles	Not Started			U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges, U.S. Geological Survey - Biological Resources Division	Research: Habitat Requirements	Contract, Graduate Student, Species Expert	
Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	3	1.1.4.5	Address threat from collection	Not Started			U.S. Fish and Wildlife Service	Research	Contract, Species Expert	1K every other year after
Kincaid's Lupine (<i>Lupinus sulphureus</i> (=oreganus) ssp. kincaidii (=var. kincaidii)), Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	2	1.1.5	Coordinate with recovery efforts for <i>Lupinus sulphureus</i> ssp. kincaidii	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management, U.S. Army Corps of Engineers	Research: Habitat Requirements, Research: Management Techniques, Research: Population Assessment, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance, Species Expert	2K each year
Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	1	1.1.6.1.1	Develop a translocation protocol for establishing new populations using individuals from existing populations	Not Started			U.S. Fish and Wildlife Service, Recovery Team	Research: Reintroduction	Contract, Graduate Student, Internal Technical Assistance, Species Expert	
Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	2	1.1.6.1.2	Design a captive propagation and release program	Not Started			Oregon Zoo, U.S. Fish and Wildlife Service, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	

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Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>), Willamette daisy (<i>Erigeron decumbens</i> var. <i>decumbens</i>)	2	1.1.6.2	Identify reintroduction and augmentation sites and establish connectivity between populations to create functioning networks and meet viability goals	Ongoing Current	FY 2010		U.S. Fish and Wildlife Service, Recovery Team, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Management: Reintroduction	Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert	2K every year
Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	3	1.1.7	Monitor population abundance and trend at all functioning network and independent population sites	Ongoing Current	FY 1995 - FY 1999		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Research: Population Assessment, Research: Population Surveys	Contract, Graduate Student, Species Expert	30K each year
Kincaid's Lupine (<i>Lupinus sulphureus</i> (=oreganus) ssp. <i>kincaidii</i> (=var. <i>kincaidii</i>)), Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>)	3	1.1.8	Monitor prairie quality at all functioning network and independent population sites	Ongoing Current	FY 2000 - FY 2004		Oregon Department of Transportation, U.S. Fish and Wildlife Service, The Nature Conservancy, Non-governmental organizations, Bureau Land Management , U.S. Army Corps of Engineers	Research: Habitat Status	Contract, Graduate Student, Internal Field Assistance, Species Expert	10K every other year after
Kincaid's Lupine (<i>Lupinus sulphureus</i> (=oreganus) ssp. <i>kincaidii</i> (=var. <i>kincaidii</i>)), Bradshaw's desert-parsley (<i>Lomatium bradshawii</i>), Fender's blue butterfly (<i>Icaricia icarioides fenderi</i>), Nelson's checker-mallow (<i>Sidalcea nelsoniana</i>), Willamette daisy (<i>Erigeron decumbens</i> var. <i>decumbens</i>)	1	1.3.1	Determine the effect of herbicides on different lifestages of Fender's blue butterfly	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, Universities or Colleges	Research: Other Information	Contract	

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Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	3	1.3.11	Assess the use of mowing as a tool to control vole populations	Not Started			Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges	Research: Ecosystem Studies	Contract	
Golden Paintbrush (Castilleja levisecta), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	3	1.3.12	Evaluate interactions between listed species and non-native plants	Not Started			Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges	Research: Ecosystem Studies	Contract	Costs are TBD
Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	2	1.3.13	Evaluate the use of livestock grazing as a tool to manage prairie habitat	Ongoing Current	FY 2011	FY 2016	Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges	Research: Demographic Studies	Contract	Project: Demography and management of Willamette daisy

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Golden Paintbrush (Castilleja levisecta), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	2	1.3.17.1	Convene an expert panel to advise the recovery program on measures needed to respond or adapt to impending climate change effects to the listed species addressed in this recovery plan	Not Started			Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges, U.S. Geological Survey - Biological Resources Division, Washington Department of Natural Resources	Research: Climate Change	Contract	
Golden Paintbrush (Castilleja levisecta), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	2	1.3.17.2	Evaluate the role of habitat heterogeneity in buffering populations from the effects of changing climate patterns in the region	Not Started			Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges, U.S. Geological Survey - Biological Resources Division, Washington Department of Natural Resources	Research: Climate Change	Contract	Costs are TBD

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Fender's blue butterfly (Icaricia icarioides fenderi)	1	1.3.3	Evaluate the dispersal ability of Fender's blue butterfly in various habitat types across the species' range	Not Started			U.S. Fish and Wildlife Service, Universities or Colleges	Research: Demographic Studies, Research: Migration	Contract	Fully funded; 2009 completion date
Fender's blue butterfly (Icaricia icarioides fenderi)	3	1.3.4	Evaluate other models to predict the viability and persistence of Fender's blue butterfly populations based on new population locations and monitoring data	Not Started			U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges	Research: Demographic Studies, Research: Population Assessment	Contract	Duration is once every 5 years
Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	3	1.3.5	Investigate the role of pollinators in supporting forb species needed for nectar species diversity	Not Started			U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges	Research: Ecosystem Studies	Contract	

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Golden Paintbrush (Castilleja levisecta), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	3	1.3.7	Identify pollinators and determine habitat needs of pollinators	Not Started			Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Universities or Colleges, Washington Department of Natural Resources	Research: Taxonomic Studies	Contract	

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Golden Paintbrush (Castilleja levisecta), Larkspur (Delphinium leucophaeum), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Hitchcock's blue-eyed grass (Sisyrinchium hitchcockii), Willamette Valley larkspur (Delphinium nuttallii ssp. nuttallii), Fender's blue butterfly (Icaricia icarioides fenderi), shaggy horkelia (Horkelia congesta ssp. congesta), Taylor's (=whulge) Checkerspot (Euphydryas editha taylori), Columbian whitetop aster (Serilocarpus rigidus), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens), Peacock larkspur (Delphinium pavonaceum)	1	3.1	Develop an active program to engage private landowners in the conservation of listed and nonlisted prairie species and prairie habitat restoration	Not Started			U.S. Fish and Wildlife Service	Management: General	Species Expert	10K each year after

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Golden Paintbrush (Castilleja levisecta), Larkspur (Delphinium leucophaeum), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Hitchcock's blue-eyed grass (Sisyrinchium hitchcockii), Willamette Valley larkspur (Delphinium nuttallii ssp. nuttallii), Fender's blue butterfly (Icaricia icarioides fenderi), shaggy horkelia (Horkelia congesta ssp. congesta), Taylor's (=whulge) Checkerspot (Euphydryas editha taylori), Columbian whitetop aster (Sericocarpus rigidus), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens), Peacock larkspur (Delphinium pavonaceum)	2	3.2	Provide information about the species of interest, incentive programs for voluntary efforts, and restoration and monitoring resources available to landowners	Ongoing Current	FY 2008		Oregon Department of Agriculture, U.S. Fish and Wildlife Service, Non-governmental organizations, Bureau Land Management, Washington Department of Natural Resources, U.S. Army Corps of Engineers	Other: Information and Education	Species Expert	10K each year after
Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Fender's blue butterfly (Icaricia icarioides fenderi)	2	3.3	Develop Safe Harbor Agreements for landowners interested in restoring prairie habitats for Fender's blue butterfly and Lupinus sulphureus ssp. kincaidi	Ongoing Current	FY 2010		U.S. Fish and Wildlife Service	Other: Information and Education	Species Expert	20K each year after

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Golden Paintbrush (Castilleja levisecta), Kincaid's Lupine (Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii)), Bradshaw's desert-parsley (Lomatium bradshawii), Fender's blue butterfly (Icaricia icarioides fenderi), Nelson's checker-mallow (Sidalcea nelsoniana), Willamette daisy (Erigeron decumbens var. decumbens)	3	6	Develop post-delisting monitoring plans for each listed species prior to delisting	Not Started			U.S. Fish and Wildlife Service	Other	Species Expert	